

The incidence of congenital anomalies in assisted reproduction pregnancies in the Czech Republic.

Antonín Šípek^{1,2,3,4}; Vladimír Gregor^{1,4}; Antonín Šípek Jr.^{1,4,5}; Jan Klaschka^{6,7}; Marek Malý^{6,8}; Jitka Jírová⁹

- 1) Department of Medical Genetics, Thomayer Hospital, Prague, Czech Republic;
- 2) Institute of Biology and Medical Genetics, Third Faculty of Medicine, Charles University, Prague, Czech Republic;
- 3) Department of Medical Genetics, GENNET, Prague, Czech Republic;
- 4) Department of Medical Genetics, Pronatal Sanatory, Prague, Czech Republic;
- 5) Institute of Biology and Medical Genetics, First Faculty of Medicine, Charles University, Prague, Czech Republic;
- 6) Institute of Computer Science of the Czech Academy of Sciences, Prague, Czech Republic;
- 7) Institute of Biophysics and Informatics, First Faculty of Medicine, Charles University, Prague, Czech Republic;
- 8) National Institute of Public Health, Prague, Czech Republic;
- 9) Institute for Health Information and Statistics, Prague, Czech Republic

Czech Republic - Infobox

13 regions and the capital Prague; 76 districts in total
Population: 10 553 843
Area: 78,866 km²

Surveillance - Infobox

- 50+ years of history; the registry was founded in 1964.
- Population-wide coverage; reporting is compulsory.
- Data are stored in the State Institute of Health Information and Statistics (ÚZIS ČR)
- Multiple sources (geneticists, neonatologists, paediatricians, other specialists).
- Registry includes cases diagnosed in livebirths, stillbirths and prenatally diagnosed cases.
- Termination of pregnancy – legal (up to 24th GW)
- Main classification system: ICD-10 (national)

Methods

- Data source: National registry of Reproductive Health of the Czech Republic
- Prenatal diagnostics data: 1998-2015
- Live-births data: 2013 – 2015
- Congenital anomalies group: (Q00-Q99)
- Statistical anomalies were performed by Pearson's chi-square test and by logistic regression analysis.
- *p* values lower than 0.05 were considered statistically significant

